

(19) World Intellectual Property
Organization
International Bureau



28 APR 2005

(43) International Publication Date
17 June 2004 (17.06.2004)

PCT

(10) International Publication Number
WO 2004/051930 A1

(51) International Patent Classification: H04L 12/28, 12/56, H04Q 7/38

(21) International Application Number: PCT/EP2003/050720

(22) International Filing Date: 15 October 2003 (15.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 02386016.6 29 November 2002 (29.11.2002) EP

(71) Applicant (for all designated States except US): MOTOROLA INC [US/US]; 1303 E.Algonquin Road, Schaumburg, IL 60196 (US).

(72) Inventor: and

(75) Inventor/Applicant (for US only): SALKINTZIS, Apostolis [GR/GR]; 2 Makrigianni Street, Attiki, 15341 Athens (GR).

(74) Agent: LITCHFIELD, Laura; Motorola European Intellectual Property Operations, Midpoint, Alencon Link, Basingstoke RG21 7PL (GB).

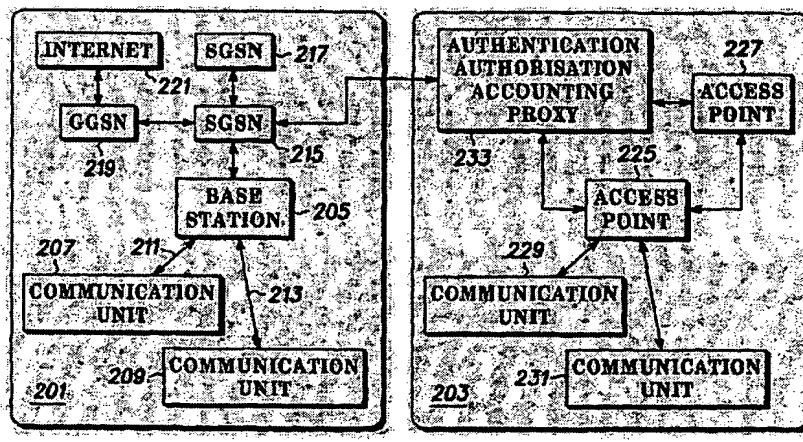
(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A COMMUNICATION SYSTEM AND METHOD OF AUTHENTICATION THEREFOR



(57) Abstract: The invention relates to a system for authenticating a GPRS communication unit (231). A communication system comprises a GPRS sub-communication system (201) and a local network (203) such as an IEEE 802.11 Wireless Local Area Network (WLAN). The GPRS communication unit (231) is a dual-mode communication unit operable to communicate on both the local network (203) and the GPRS sub-communication system (201). The GPRS communication unit (231) attaches to an access point (225) of the local network using a local network protocol. The GPRS communication unit (231) is authenticated and attached to the GPRS sub-communication system (201) by communicating GPRS authentication messages between the GPRS communication unit (231) and a GPRS authentication element (215) through the access point (225) by encapsulation of GPRS authentication messages in local network authentication messages. Hence, authentication of a dual mode communication unit on a GPRS communication system is enabled in the context of a local network authentication process.

WO 2004/051930 A1